Title (en)
  COMPONENT SUPPLY SYSTEM

Title (de)
  KOMPONENTENZUFUHRSYSTEM

Title (fr)
  SYSTÈME D'ALIMENTATION EN COMPOSANTS

Publication
  EP 3518645 A1 20190731 (EN)

Application
  EP 16916782 A 20160922

Priority
  JP 2016077919 W 20160922

Abstract (en)
  A loose component supply device in which components scattered on stage 156 are imaged by camera 290. Because the viewing angle of the
  camera is $\alpha > 0$, a side surface of the component is imaged. Based on the image data of the component, an index value specifying a size of the side
  surface of the component is calculated. Then, in a case in which the calculated index value matches a set value, it is determined that it is possible to
  hold the component. In other words, in a case in which there is a certain distance between multiple components, from imaging a side surface of the
  component, if an index value that specifies the size of the side surface of the component matches the set value, it is determined that it is possible to
  hold the component. Accordingly, it is possible to determine appropriately whether it is possible to hold the component scattered on the stage.

IPC 8 full level
  H05K 13/02 (2006.01); **H05K 13/04** (2006.01)

CPC (source: EP US)
  B25J 9/1697 (2013.01 - US); **H05K 13/028** (2013.01 - EP US); **H05K 13/043** (2013.01 - EP US); **H05K 13/0812** (2018.07 - EP US);
  H05K 13/0813 (2018.07 - EP US); G05B 2219/37572 (2013.01 - US); G05B 2219/50 (2013.01 - US)

Cited by
  EP4081010A4

Designated contracting state (EPC)
  AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
  BA ME

DOCDB simple family (publication)
  EP 3518645 A1 20190731; **EP 3518645 A4 20191016**; **EP 3518645 B1 20230222**; CN 109716878 A 20190503; CN 109716878 B 20210209;
  JP 6754437 B2 20200909; JP WO2018055713 A1 20190627; US 11122721 B2 20210914; US 2019357396 A1 20191121;
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  EP 16916782 A 20160922; CN 201680089438 A 20160922; JP 2016077919 W 20160922; JP 2018540545 A 20160922;
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